PSG/AID-598/69
29 December 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting to Determine Scope of Image Manipulation Conversion
Study

1. A meeting was called today by [   ] TSSG/RED, to clarify   25X1
the objective of the Image Manipulation Conversion study. Other members
present were [   ] and [   ]   25X1
TSSG/RED, [   ] PSG/AID.   25X1

2. It was pointed out that the scope of the subject study would
be limited to the image manipulation system that is needed during the
testing phase. Reasoning here was that the data needed for this system
is fairly well defined whereas the data needed for a long-range image
manipulation system study is not clear at this time. Later thoughts
by AID on this subject however are that the scope of the study also
includes a long-range system even though the data needed is not well
known.

3. It was determined that the testing phase of the image manipula-
tion system will definitely be done using the ORD scanning and display
equipment. Imagery will be digitized and written on tape using this
equipment. This tape will be processed on a large scale computer whose
output will be written back to tape and returned to be displayed on the
ORD display equipment. The tape SERVO associated with the ORD system is
a 9-track unit. Testing will be done in the so called "card read mode"
and not in the "keyboard/typewriter mode". Testing of the image manipu-
lation programs is scheduled to start the beginning of fiscal 1971 and
continue for a period of six months. During testing approximately five _minimum!_
hours per week of central processor time will be needed and this time
?? need not be during prime shift.

It helps, though.

4. During the testing phase, the programs needed to be converted for
494 processing can be limited to those necessary for reading, writing,
and processing the image data tape. All those programs in the [   ]   25X1
system which are now associated with scanning and viewing the image will
not need to be converted since comparable programs will already exist in
the ORD scanning and display system.

5. A discussion of the array size capabilities of various computers
under consideration resulted in the following information:

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Computer	Array Size Capability	
IBM 1800	64 x 64	
IBM 360-44	64 x 128	
IBM 360-50	128 x 256 (ORD)	
UNIVAC 494	64 x 64 (NPIC)	

*OCS has 360/65
which definitely can
process a 256 x 256
array.*

[_____] stated that in his view an array size capability of at   25X1
least 256 x 256 will be required in any long-range operational image
manipulation system.

6. [_____] had gotten information from [_____] concerning   25X1
questions previously asked by [_____]   This information was   25X1
verbally presented and will be followed up in typed form. [_____]   25X1
stated he will obtain listings of the image manipulation programs during
his trip to [_____] next week.   25X1

7. A report written by [_____] in March 1968 was available   25X1
during the meeting. This report was the result of a previous study
dealing with the possible conversion of [_____] image manipulation   25X1
programs for use on the UNIVAC 494 computer. A copy of this report
will be sent to [_____]   25X1

[_____]   25X1

Chief, Mensuration Section, AID, PSG
NPIC

Distribution:
   Orig - NPIC/PSG/AID
      1 - NPIC/TSSG/RED ([_____]   25X1
      1 - NPIC/PSG/AID/SPB [_____]   25X1
      2 - NPIC/PSG/AID/AMB

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SECRET